



State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095

(603) 271-3406 FAX (603) 271-7894



March 10, 2003

Letter of Deficiency

DSP #03-026

Chairman John Northcott
Town of Marlborough
P.O. Box 487
Marlborough, NH 03455-0407

RE: Meetinghouse Pond Dam #151.07, Marlborough

Dear Chairman Northcott

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that play a part in reaching this goal is our inspection program. DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on October 9, 2002. During this visual inspection and/or file review, the following deficiencies were observed:

- Both embankments, on either side of the spillway, are overgrown with brush;
2. There is minor soil erosion adjacent to each of the four corners of the spillway training walls (i.e upstream left and right of spillway, downstream left and right of spillway);
 3. Based on DES's hydrologic/hydraulic analysis, the spillway does not have adequate discharge capacity to pass the 50-year 24-hour event. The inflow was estimated to be 344 cubic feet per second (cfs) which was routed to 68 cfs with 0.4 feet of remaining freeboard; and
 4. Review and update the operations and maintenance plan (O&M). At a minimum check the content of the plan, contact people and add phone numbers.

DES believes that the above deficiencies can be corrected by performing the following items by the indicated schedule:

June 1, 2003:

1. Remove the trees and brush from the upstream slope, crest, downstream slope, and for a distance of 15 feet from the toe of the downstream slope;

Establish vegetation on the crest of the dam in those areas prone to erosion;

Update the O&M plan;

October 1, 2003:

4. Under the direction of a New Hampshire licensed professional engineer, submit plans and specifications to increase the spillway discharge capacity to pass the design event with a minimum of 1 foot of freeboard. If the Town does not agree with DES's hydrologic analysis, an

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independent analysis should be conducted by the Town or Town's consultant. It is DES' opinion that the least expensive alternative to pass the design event will be to add an emergency spillway to the dam and leave the existing spillway in its current configuration; and

October 1, 2004:

5. Complete construction activities in accordance with plans and specifications submitted under item 2 above. If the independent hydrologic analysis (as approved by DES) indicates that the dam has adequate discharge capacity, item 3 will be repealed.

DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date(s) indicated above. Please call or write to our office if the repairs are completed ahead of the aforementioned schedule so that DES may schedule a follow-up inspection. Unless notified otherwise, DES will conduct the follow-up inspection on or after the date(s) indicated above. If you believe changes to the items of work or dates are necessary, please make the changes directly on the form and provide a brief explanation. Please call or write to our office if the repairs are completed before the aforementioned schedule. We have enclosed a self addressed stamped envelope for you to return this form.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at the address listed on the top of the previous page.

Sincerely

 **COPY**

Jeffrey M. Blaney
Dam Safety Engineer

Attachments Copy of O&M on file, DB8, DB13

cc: Gretchen Rule

Certified # 7000 1670 0000 05 1711

JMB/was/h:/safety/wendy/lod/151-07lod.doc